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Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	2005/2006 Safety Conscious Planning Program (SCPP)		
RFP NUMBER: Not Available	NJDOT RESEARCH PROJECT MANAGER: Patricia Ott/ Patty Leech		
TASK ORDER NUMBER: Not Available	PRINCIPAL INVESTIGATOR: Ali Maher/Joe Orth/Claudia Knezek		
Project Starting Date: 1/1/2005 Project Ending Date: 12/31/2006	Period Covered: Third Quarter, 2005		

	Year 1				Year 2		
Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete	% of Task this quarter	% of Task to date	% of Total Complete
1.1 Public Awareness Campaign	5	25	75	3.75			
1.2 Network With Partners	2.5	25	75	1.88			
1.3 Annual Safety Symposium	5	25	75	3.75			
2.1 Engineering Education (5)	15	0	100	15			
2.2 Safety Workshops SCP- (5)	15	0	100	15			
2.3 Data Workshops (5)	15	0	100	15			
2.4 New Technology Introduction	2.5	0	100	15			
2.5 SCP Coordinator Programs (3)	10	25	25	.62			
2.6 Symposium (4)	10	60	76.5	7.65			
2.7 Safety Training Intrastate	5	25	25	2.5			
2.8 Track Customers/Registration	2.5	25	25	2.5			
		5	100	5			
		25	75	1.88			
3.1 Advocate for Crash Data	2.5	10	10	.25			
3.2 Showcase Tools	2.5	50	50	1.25			
3.3 Monitor SCP Action Item	5	50	50	2.5			
3.4 Identify New Partners	2.5	75	75	1.88			
TOTAL	100%			77.91%			
TOTAL PROJECT TO DATE				38%			

Project Objectives:

Rutgers staff members will act as agents for information exchange between the New Jersey Department of Transportation (NJDOT) – Division of Traffic Engineering and Safety, the Federal Highway Administration (FHWA) – New Jersey Division Office, the Metropolitan Planning Organizations (MPOs) and transportation agencies at the county and municipal levels. This program will continue the mission of building safety into larger safety projects beyond the traditional focus of the local “trouble spots.” Furthermore, a fully integrated strategy of addressing safety deficiencies through training will include engineering, enforcement, education, and emergency medical services (4E’s) in the following manner:

- I. Rutgers will seek to integrate “safety” into all transportation planning projects at the state, county, and local levels to alleviate traffic crashes through proactive technology transfer in New Jersey. Local law enforcement,



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engineering, and public works personnel will be forming educational roadway safety partnerships to adopt tools for analyzing traffic safety data that will supply information for forecasting crashes and then integrating local projects into the NJDOT and MPO pipelines, where safety solutions can be appropriately funded.

- II. In consultation with NJDOT, the SCPP will conduct a Safety Coordinator Qualification Program for counties. The program content will address safety planning and provide networking opportunities for representatives from local counties that will better enable them to become advocates for traffic safety and reach out to municipalities within their own county. In addition, Safety Coordinators will be the local contacts for NJDOT and SCPP when new and updated safety opportunities become available.
- III. The SCPP will address needs of local transportation agencies to collect more accurate traffic data and reduce the potential for injuries and/or fatal crashes. Specifically, location and causation will be further identified in the database, thus enabling planning, design, maintenance, and enforcement professionals to respond to critical safety needs. Also, improved traffic data will identify critical safety locations that will help define the most effective countermeasures at the state and local levels. These local successes will become “case studies” and included in training and technology transfer activities such as newsletters, website activities, and report dissemination.

Project Abstract:

Nationally, a leading cause of injuries and deaths is attributed to roadway crashes in which over 43,000 persons were killed in 2003 and close to 3 million persons were injured in motor vehicle related crashes. Therefore, the FHWA has designated safety as one of the three “vital few goals (safety, environmental stewardship, and congestion mitigation.) The safety goal is to lower death rates at roadway intersections in the areas of pedestrian and roadway departures by ten percent by 2007. In addition, New Jersey had over 437,000 crashes in 2002 that caused 883 fatalities. Over 90% of New Jersey’s roadway network is located on county and municipal roadways, so it is imperative that strategies be developed to bring best practices, tools and funding opportunities to the local level.

Through past research conducted at Rutgers University (CSSI), it was identified that local roadway safety issues do not always receive the necessary support that is required to prevent crashes and unsafe roadway conditions due to several factors. They include the availability of funding that differs between areas of the state, priority considerations, environmental impacts, as well as political factors. Therefore, there was a need to address safety through a comprehensive and proactive approach for crash prevention by improvement of unsafe transportation conditions, and the establishment of a safety planning network. This safety planning network can be accomplished through the development of safety partnerships to help solve local problems. The model was developed by FHWA and it is known as Safety Conscious Planning (SCP). The Rutgers SCPP will expand on the existing success and safety partnerships formed by NJDOT, MPO’s and CSSI to further expand the localized networks that addresses important roadway safety issues. These localized networks will assist the NJDOT by proactively seeking short-term and long term solutions for their safety problems. The SCPP will be integral in creating the framework necessary for locals to develop the strategies and action plans for addressing safety in their jurisdictions.

In conjunction with NJDOT and FHWA, Rutgers will establish an information exchange system to fully integrate safety that integrates engineering, enforcement, education, and emergency medical services (4E’s) into transportation planning projects at all levels of government. The intent is to alleviate traffic crashes using proactive technology transfer in New Jersey, in order to respond to the state’s need for analyzing crash data, identifying safety problems, and employing engineering countermeasures. The SCPP and NJDOT will be taking the lead through training and public awareness to ensure that state, regional, and local transportation agencies are working together to integrate safety at all levels of the planning and implementation processes. Specifically, local law enforcement, engineering, and public works personnel will be forming educational roadway safety partnerships to adopt tools for analyzing traffic safety data that will supply information on forecasting crashes and then integrating local projects into the NJDOT and MPO pipelines, where safety solutions can be appropriately funded.

Additionally, the SCPP will focus on the need for local transportation agencies to collect more accurate traffic data to reduce potential injuries and/or fatal accidents. Their location and causation will be identified in order to complete databases that enable planning, design, maintenance and enforcement professionals to respond to critical



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safety needs. Critical safety locations will be defined through effective countermeasures at the state and local levels. These local successes will then become “case studies” that are showcased during training and technology transfer activities that include the newsletters, website, and dissemination of reports.

1. Progress this quarter by task:

1.1 Public Awareness Campaign	Summer Institute Press Conferences (7/7 & 8/5/05)
1.2 Network With Partners	Garrett Morgan Academy –Summer Transportation Institute (7/11-8/5)
1.3 Annual Safety Symposium	Traffic Engineering & Safety Forum (Fall 05)
2.1 Engineering Education (5)	Summer Transportation Institute (7/11 – 8/5/05)
2.2 Safety Workshops SCP (5)	Mid Continent Safety Research Symposium (Local Adoption of SCP Workshop)
2.3 Data Workshops (5)	Traffic Engineering & Safety Forum (Fall 05)
2.4 New Technology Introduction	TSRC Data Base Search Tool Demonstration (9/05)
2.5 SCP Coordinator Programs (3)	Police Grant Writing Workshop Meetings (7/6 & 8/31)
2.6 Symposium (4)	Traffic Engineering & Safety Forum Meetings (7/8 & 8/29)
2.7 Safety Training Intrastate	Mid Continent Safety Research Symposium (Local Adoption of SCP Workshop) (8/18-19)
2.8 Track Customers/Registration	Created current Mayors List (8/29)
3.1 Advocate for Crash Data	TSRC Data Base Search Tool Demonstration (9/05)
3.2 Showcase Tools	Summer Transportation Institute (7/11-8/5/05)
3.3 Monitor SCP Action Item	NJ Transportation Safety Plan Development ✓ Strategies Distribution (7/11-7/29) ✓ Preparation of Safety Plan Draft (8/1-8/29)
3.4 Identify New Partners	National Network of FHWA Summer Transportation Institute Directors (8/12)

2. Proposed activities for next quarter by task:



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1.1 Public Awareness Campaign	Newsletter Articles (7/1, 8/1, 9/1)
1.2 Network With Partners	Garrett Morgan Academy Summer Institute (7/11-8/5/05)
1.3 Annual Safety Symposium	SMTF Symposium (Fall 05)
2.1 Engineering Education (5)	Traffic Signals Workshop (9/05)
2.2 Safety Workshops SCP- (5)	Police Grant Writing Workshop Planning Meeting (8/31)
2.3 Data Workshops (5)	TSRC Meeting at NJDOT (9/05)
2.4 New Technology Introduction	Strategic Plan Outcomes – Planning Session (9/05)
2.5 SCP Coordinator Programs (3)	Planning Session (9/05)
2.6 Symposium (4)	Planning Session (9/05)
2.7 Safety Training Intrastate	Mid-Atlantic Safety Research Symposium (8/18 Presentation) Meeting with T. Welsh & CTR Staff (8/19)
2.8 Track Customers/Registration	Ongoing (7/1-9/30/05)
3.1 Advocate for Crash Data	TSRC Meeting at NJDOT (9/05)
3.2 Showcase Tools	TSRC Meeting at NJDOT (9/05) Traffic Engineering & Safety Forum Meeting (7/8 & 8/29)
3.3 Monitor SCP Action Item	Outcome of SMTF Report (9/05)
3.4 Identify New Partners	Outcome of SMTF Report (9/05)

3. List of deliverables provided in this quarter by task (product date):

Deliverable	Description
Local Safety Conscious Planning	Preparation of Safety Integration Report (9/05)
Newsletter Articles	<u>August Edition</u> ✓ Cracking Down on Drinking and Driving ✓ At Your Fingertips: Online Resources What is the NHTSA Safe Communities Service Center ✓ Mid-Atlantic Pedestrian Safety Forum <u>September Edition</u> ✓ Outcomes of Previous You Drink & You Drive You Lose Campaigns ✓ Center Hosts National Summer Transportation Institute ✓ Local Chapter of the ITE Honored
Expanded List of Subscribers	Expand Municipal Mayors List (566)
Distribution of Technical Information	Newsletter Articles (3600)
Twenty Four Workshops	Summer Transportation Institute at GMA (5 Safety Workshops)



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Put the Brakes on Safety (2)	Traffic Engineering & Safety Symposium Meeting (7/8 & 8/29)
Customer List	Traffic Engineering List (1100)
Measuring Training Effectiveness	Summer Institute Evaluations (8/12/05)
Quarterly & Annual Reports	Third Quarter -9/05
Attendance at MPO Meetings	-----
Speaking Engagements	Summer Institute (7/11-8/5) Mid Continent Safety Research Symposium (8/18)
FHWA & NDOT Quarterly Meetings	Third Quarter – (9/05)

4. Progress on Implementation and Training Activities:

Deliverable	Description
Local Adoption of SCP	Published Research –CTRE, Iowa (7/05)
County Profile Report	Tier 2 – Comprehensive Safety Plan (9/05)
MPO Integration of Safety Report	Report Draft (9/05)
Municipal Kits	Informational Kit for Elected Officials to Get Started on Safety Planning
Newsletter Articles	Ongoing
Expanded List of Subscribers	Ongoing
Distribution of Technical Information	Distribution of Published Research to TRB Committees
Twenty Four Workshops	Summer Transportation Workshops (5) Mid Continent Research Safety Conference (1) National Summer Transportation Institute (1)
Put the Brakes on Safety (2)	NJ Traffic Engineering & Safety Symposium
Customer List	Ongoing
Measuring Training Effectiveness	Ongoing
Quarterly & Annual Reports	Ongoing
Attendance at MPO Meetings	9/05
Speaking Engagements	-----
FHWA & NDOT Quarterly Meetings	Ongoing

5. Problems/Proposed Solutions: No pending issues.

Total Project Budget	0
Modified Contract Amount:	0
Total Project Expenditure to date	0
% of Total Project Budget Expended	0

* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.